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PTO-1449

ATTY. DOCKET NO.
A-67493-2/DJB/RMS
/DCFSERIAL NO.
09/473,904APPLICANT
CHEE et al.FILING DATE
December 28, 1999GROUP
1643

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JB</i> ✓	1	4,200,110	4/1980	Peterson	_____	_____	
<i>JB</i> ✓	2	4,682,895	7/1987	Costello	_____	_____	
<i>JB</i> ✓	3	4,785,814	11/1988	Kane	_____	_____	
<i>JB</i> ✓	4	4,824,789	4/1989	Yafuso et al.	_____	_____	
<i>JB</i> ✓	5	4,999,306	3/1991	Yafuso et al.	_____	_____	
<i>JB</i> ✓	6	5,302,509	4/1994	Cheeseman	_____	_____	
<i>JB</i> ✓	7	5,357,590	10/1994	Auracher	_____	_____	
<i>JB</i> ✓	8	5,435,724	7/1995	Goodman et al.	_____	_____	
<i>JB</i> ✓	9	5,481,629	1/1996	Tabuchi	_____	_____	
<i>JB</i> ✓	10	5,814,524	10/1998	Walt	_____	_____	
<i>JB</i> ✓	11	5,575,849	11/1996	Honda et al.	_____	_____	
✓	12	5,639,603	6/1997	Dower et al.	_____	_____	
✓	13	5,656,241	8/1997	Seifert et al.	_____	_____	
✓	14	5,840,256	11/1998	Demers et al.	_____	_____	
<i>JB</i> ✓	15	5,854,684	12/1998	Stabile et al.	_____	_____	
<i>JB</i> ✓	16	6,023,540	2/2000	Walt et al.	_____	_____	
<i>JB</i> ✓	17	5,863,708	1/1999	Zanzucchi et al.	_____	_____	
<i>JB</i> ✓	18	5,518,883	5/1996	Soini	_____	_____	

EXAMINER

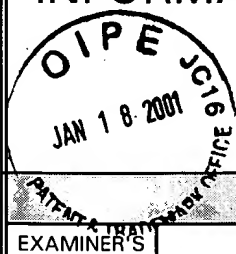
[Signature]

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FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>AB</i> ✓	19	96/03212	2/1996	PCT	✓	✓		
<i>I</i> ✓	20	97/14928	4/1997	PCT	✓	✓		
<i>I</i> ✓	21	98/50782	11/1998	PCT	✓	✓		
<i>AB</i> ✓	22	99/67414	12/1999	PCT	✓	✓		
<i>I</i> ✓	23	99/18434	4/1999	PCT	✓	✓		
<i>I</i> ✓	24	99/60170	11/1999	PCT	✓	✓		
<i>I</i> ✓	25	00/13004	3/2000	PCT	✓	✓		
<i>I</i> ✓	26	00/16101	3/2000	PCT	✓	✓		
<i>AB</i> ✓	27	00/04372	1/2000	PCT	✓	✓		
<i>AB</i> ✓	28	00/48000	9/2000	PCT	✓	✓		

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>AB</i>	A 4,822,746	4/1989	Walt			
	B 5,002,867	3/1991	Macevicz			
	C 5,114,864	5/1992	Walt			
	D 5,105,305	4/1992	Betzig et al.			
	E 5,143,853	9/1992	Walt			
	F 5,028,545	7/1991	Soini			
	G 5,244,636	9/1993	Walt et al.			
	H 5,244,813	9/1993	Walt et al.			
	I 5,250,264	10/1993	Walt et al.			
	J 5,252,494	10/1993	Walt			
	K 5,254,477	10/1993	Walt			
	L 5,298,741	3/1994	Walt et al.			
	M 5,320,814	6/1994	Walt et al.			
	N 5,496,997	3/1996	Pope			
	O 5,512,490	4/1996	Walt et al.			
	P 5,573,909	11/1996	Singer et al.			
	Q 5,633,972	5/1997	Walt et al.			
	R 4,499,052	2/1985	Fulwyler			
	S 5,690,894	11/1997	Pinkel et al.			
	T 5,194,300	3/1993	Cheung			
<i>AB</i>	U 5,132,242	7/1992	Cheung			

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JB</i>	V	5,494,798	2/1996	Gerdt et al.	<i>/</i>	<i>/</i>	
	W	5,565,324	10/1996	Still et al.	<i>/</i>	<i>/</i>	
	X	5,874,219	2/1999	Rava et al.	<i>/</i>	<i>/</i>	
	Y	5,545,531	8/1996	Rava et al.	<i>/</i>	<i>/</i>	
	Z	5,516,635	5/1996	Ekins et al.	<i>/</i>	<i>/</i>	
	AA	5,900,481	5/1999	Lough et al.	<i>/</i>	<i>/</i>	
	BB	5,888,723	3/1999	Sutton et al.	<i>/</i>	<i>/</i>	
<i>JP</i>	CC	5,380,489	1/1995	Sutton et al.	<i>/</i>	<i>/</i>	

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							Yes	No
<i>JP</i>	DD	0478 319	4/1992	EP	<i>/</i>	<i>/</i>		
	EE	0269764	6/1988	EP	<i>/</i>	<i>/</i>		
	FF	93/02360	2/1993	PCT	<i>/</i>	<i>/</i>		
	GG	89/11101	11/1989	PCT	<i>/</i>	<i>/</i>		
	HH	97/14028	4/1997	PCT	<i>/</i>	<i>/</i>		
	II	0 723 146	7/1996	EP	<i>/</i>	<i>/</i>		
	JJ	98/40726	9/1998	PCT	<i>/</i>	<i>/</i>		
	KK	0 392 546	10/1990	EP	<i>/</i>	<i>/</i>		
	LL	98/53093	11/1998	PCT	<i>/</i>	<i>/</i>		
	MM	97/40385	10/1997	PCT	<i>/</i>	<i>/</i>		
	NN	98/53300	11/1998	PCT	<i>/</i>	<i>/</i>		
<i>JP</i>	OO	98/29736	7/1998	PCT	<i>/</i>	<i>/</i>		

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	1	Anonymous, "Fluorescent Microspheres," Tech. Note 19, Bang Laboratories, (Fishers, IN) February 1997.
	2	Anonymous, "Microsphere Selection Guide," Bang Laboratories, (Fisher, IN) September 1998.
	3	Bangs, L.B., "Immunological Applications of Microspheres," The Latex Course, Bang Laboratories (Carmel, IN) April 1996.
	4	Peterson, J. et al., "Fiber Optic pH Probe for Physiological Use," Anal. Chem., 52:864-869 (1980).
	5	Pope, E. "Fiber Optic Chemical Microsensors Employing Optically Active Silica Microspheres," SPIE, 2388:245-256 (1995).
	6	Strachan et al., "A Rapid General Method for the Identification of PCR Products Using a Fibre-Optic Biosensor and its Application to the Detection of Listeria," Letters in Applied Microbiology, 21:5-9 (1995).
	7	Abel et al., "Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides," Anal. Chem. 68:2905-2912 (1996).
	8	Piunno et al., "Fiber-Optic DNA Sensor for Fluorometric Nucleic Acid Determination," Anal. Chem., 67:2635-2643 (1995).
	9	Drmanac, R. et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," The First International Conference on Electrophoresis, Supercomputing and the Human Genome, Proceedings of the April 10-13, 1990 Conference at Florida State University. Ed. C. Cantor and H. Lim.
	10	Drmanac, R. et al., "Prospects for a Miniaturized, Simplified and Frugal Human Genome Project," Scientia Yugoslavica, 16(1-2):97-107 (1990).
	11	Drmanac, R. et al., "Sequencing by Hybridization (SBH) with Oligonucleotide Probes as an Integral Approach for the Analysis of Complex Genomes," International Journal of Genome Research, 1(1):59-79 (1992).
	12	Drmanac, R. et al., "Sequencing by Hybridization," Automated DNA Sequencing and Analysis, ed. M. Adams, C. Fields and J. Venter. (1994).
	13	Illumina Inc. "Emerging," Windhover's In Vivo, The Business and Medicine Report, pg. 1-2 (September 1998).
	14	Slides presented by Illumina at Cambridge Healthtech Institute's Implications of Human Genetic Variation - SNP's, Polymorphisms, Diseases & Treatment. November 18-19, 1998, Waltham, Massachusetts.
	15	Barnard et al., "A Fibre-Optic Chemical Sensor with Discrete Sensing Sites," Nature, 353:338-340 (September 1991).
	16	Fuh et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112:1159-1163 (1987).
	17	Grazia et al., "In-Vivo Biomedical Monitoring by Fiber-Optic Systems," Journal of Lightwave Technology, 13(7):1396-1406 (1995).

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Healey et al., "Fiberoptic DNA Sensor Array Capable of Detecting Point Mutations," Analytical Biochemistry, 251:270-279 (1997).

Hirschfeld et al., "Laser-Fiber-Optic "Optrode" for Real Time In Vivo Blood Carbon Dioxide Level Monitoring," Journal of Lightwave Technology, LT-5(7):1027-1033 (1987).

20 Peterson et al., "Fiber-Optic Sensors for Biomedical Applications," Science, 13:123-127 (1984).

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